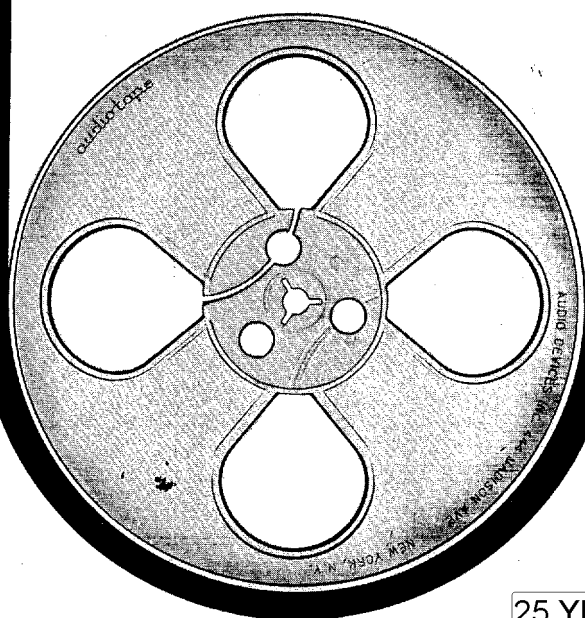


# audiotape

PROFESSIONAL QUALITY, SPLICE-FREE  
ON THE CONVENIENT C-SLOT REEL

TRADE MARK

TRIPLE  
RECORDING  
ON "TEMPERED" MYLAR\*



25 YEAR RE-REVIEW



\*DuPont trade mark  
for its polyester film

MAGNETIC RECORDING TAPE MANUFACTURED BY AUDIO DEVICES, INC., NEW YORK, N.Y.

# REE/N<sub>2</sub>

**BX6734**

Dual Track ☐

**STEREO**

Two Track ☐

Four Track ☒

[illegible]

# AUDIO DEVICES, Inc.

235 East 42nd Street, New York, N. Y. 10017

U. S. Patents: 2692736 2700367 2714871

STARR

6734

30 Oct 67

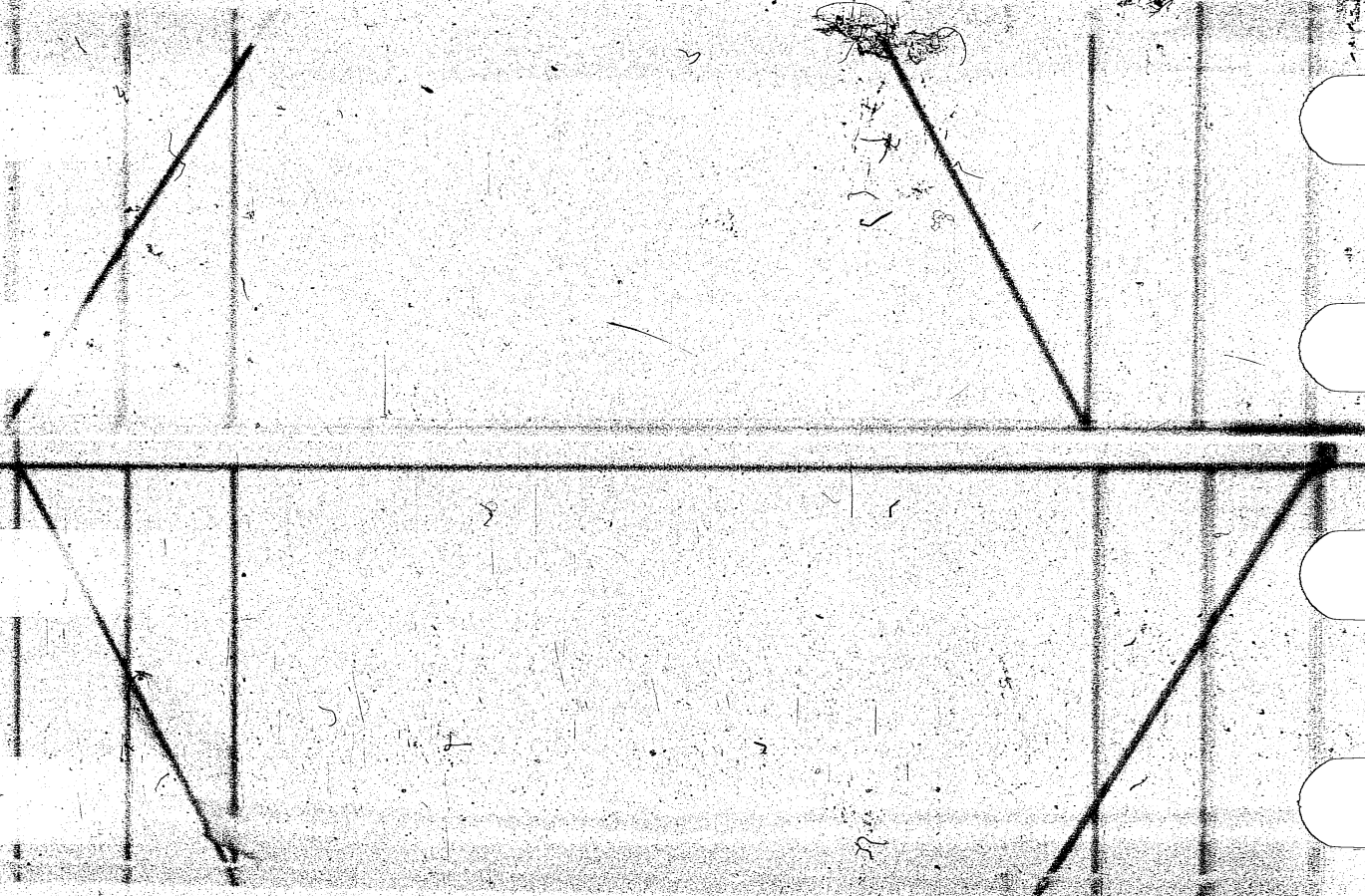
FS 52

**ROUTE**

**STRIP**

6734

38 52  
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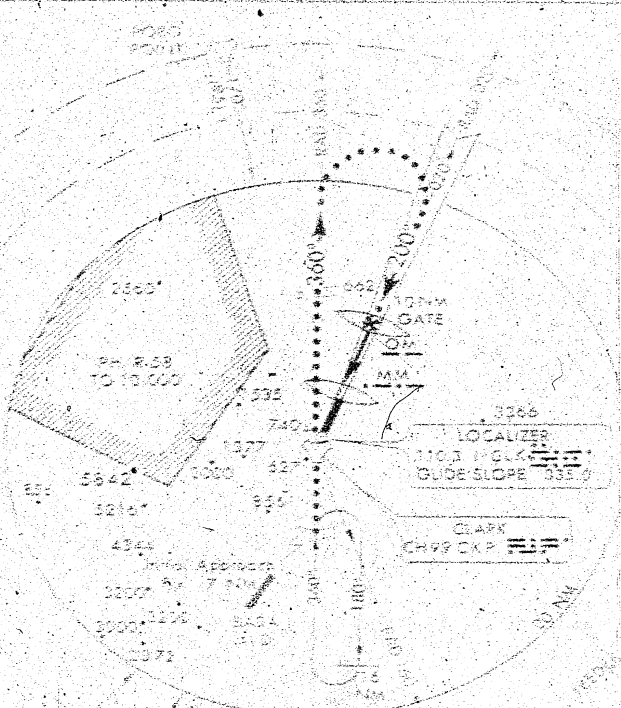




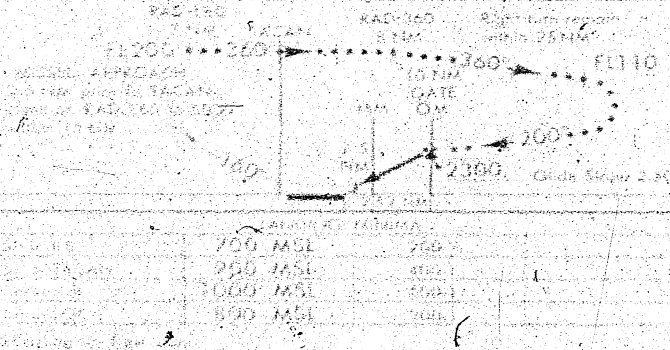
# CLARK

## TACAN-2/ILS

DEPT 425 COM  
1225 12254  
CLARK TOWER  
1225 12254  
GND COM  
1225 12254  
PAR 425  
INSTRUMENT LANDING



PA 2-58 TO 10-000  
1225 12254  
CLARK TOWER  
1225 12254  
GND COM  
1225 12254  
PAR 425  
INSTRUMENT LANDING



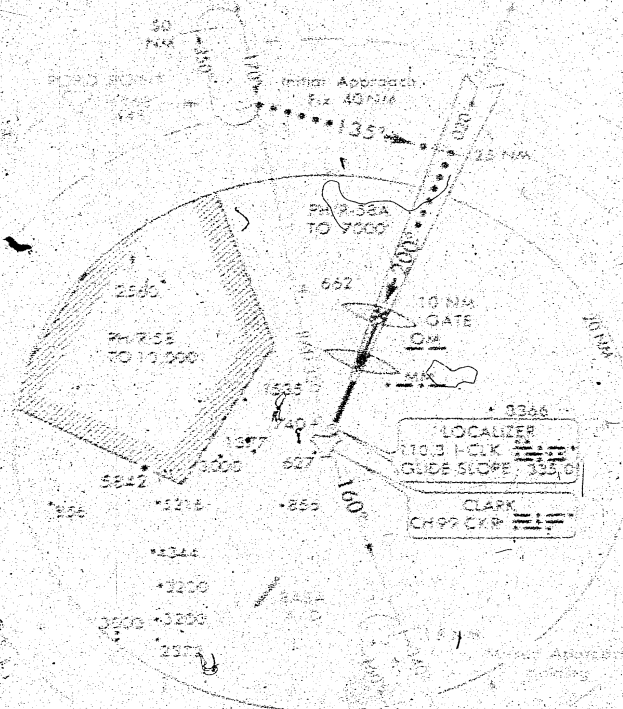
## TACAN-2/ILS

# CLARK

# CLARK

## TACAN-3/ILS

CLARK APP CON  
DATA 138.4  
CLARK TOWER  
135.8 172.2  
GND CON  
172.8 172.8  
PAT ASS  
DIRECTING AUTH



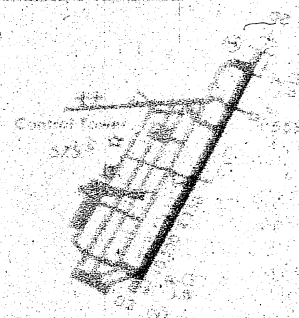
EMERG GATE ALT 100 NM 13000

MIN SAFE ALT 25 NM 5000  
FIELD ELEV 475

MODEL APPROACH  
Initial approach to TACAN and ILS  
RAD 100 to 1300 and 1000

OM 10 NM GATE 25 NM 135 F 200  
RAD 350 40 NM

TACAN 100 NM 2300  
Glide Slope 2.5%



700 MSL	700 MSL	700 MSL
500 MSL	500 MSL	500 MSL
1000 MSL	1000 MSL	1000 MSL
800 MSL	800 MSL	800 MSL

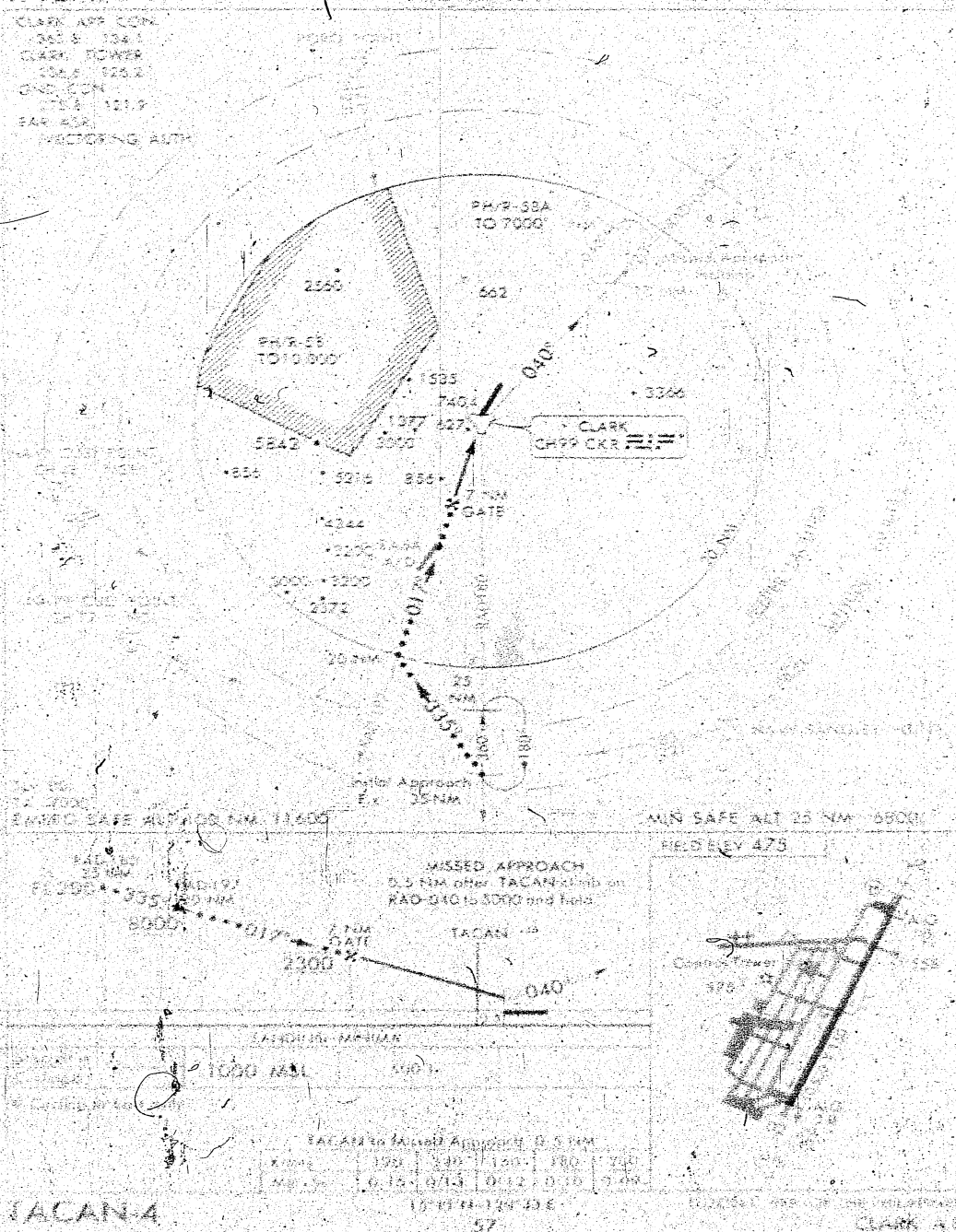
## TACAN-3/ILS

15 110 120 130

CLARK 138

# CLARK

CLARK APT 204  
 100 S 104th  
 CLARK HOMER  
 100 S 104th  
 CLARK HOMER  
 100 S 104th  
 CLARK HOMER  
 100 S 104th



CLARK



2000年12月

[illegible]

ANNALS OF THE ENTOMOLOGICAL SOCIETY OF AMERICA

**SALES**

1. DATE SENT : 1-12-82  
 2. TO : JIMMYE L. BROWN  
 3. FROM : JIMMYE L. BROWN  
 4. SUBJECT : JIMMYE L. BROWN  
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KADENA





# KADENA

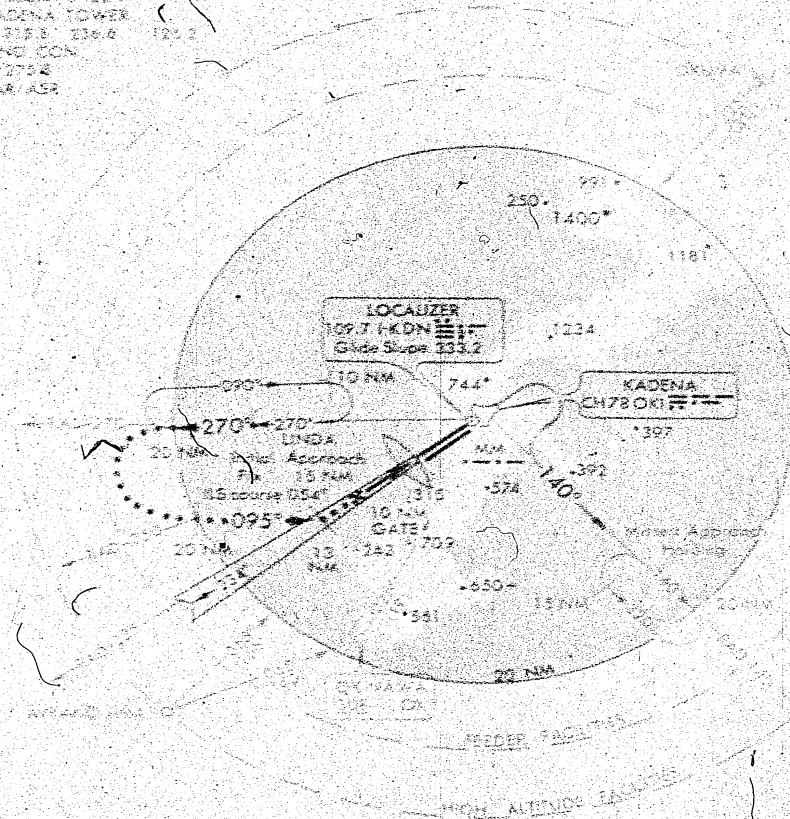
## TACAN/ILS-4 RWY 05

141-1437-103AF

SPECIAL OPERATIONS

KADENA AB  
KADENA AB

KADENA APP CON  
KADENA TOWER  
KADENA GND CON  
KADENA PAR/ASR



FA 2500

EMERG RATE ALT 100 NM 2700

MIN SAFE ALT 25 NM 2500

UNDA  
RAD-270  
15 NM

UNDA  
RAD-270  
15 NM

MISSED APPROACH

At Min Alt climb on 054° to 2000.  
20 NM after TACAN right turn  
intercept RAD-140 and field.

FIELD ELEV 142

12000  
4000  
2000  
1500  
054°  
GATE  
TACAN

Drive Speed 250

140 MSL  
400 MSL  
600 MSL

140 MSL  
400 MSL  
600 MSL

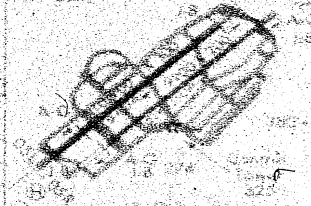
100 Feet RVR 24

100 Feet RVR 24

100 Feet RVR 24

100 Feet RVR 24

\*Rwy 23R 12,100 level  
1300' over Rwy 05C  
considered rwy  
for 23R



CAUTION  
Construction on Rwy.

## TACAN/ILS-4 RWY 05

141-1437-103AF

SPECIAL OPERATIONS

KADENA AB  
KADENA AB

# KADENA



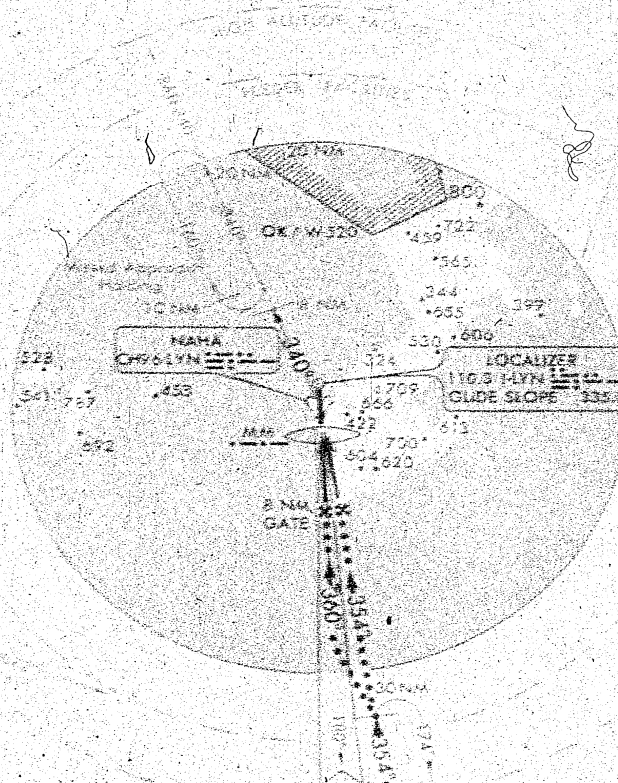
# NAHA

## TACAN/ILS RWY 36-1

SAL 1713-0754P

NAHA 35

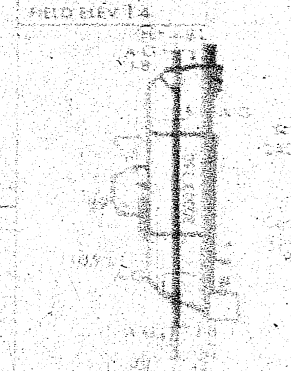
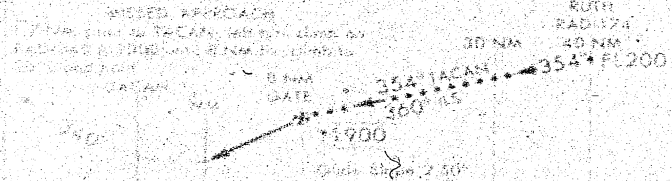
ORNAWA APP CUN  
251.4 125.7  
NAHA TOWER  
231.6 232.8  
126.2 118.1  
GND CON  
354.8  
PAR 45P



EMERG SAFE ALT 100 NM 2700

RUTH  
Visual Approach RAD 174  
FD 40NM

MIN SAFE ALT 15 NM 1200



## TACAN/ILS RWY 36-1

SAL 1713-0754P

NAHA 35

# NAHA



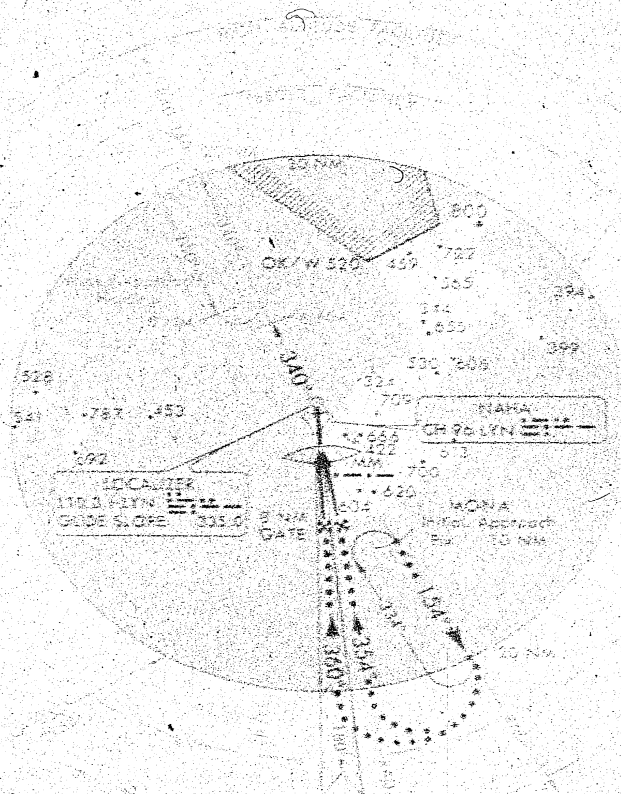
# NAHA

## TACAN/ILS-RWY 36-2

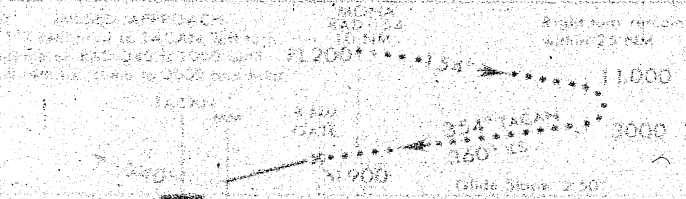
138

NAHA 35

ORIGIN: ILS CON  
 1334 337  
 NAHA TOWER  
 1335 234  
 1336 118  
 1337 100  
 1338 114  
 1339 115



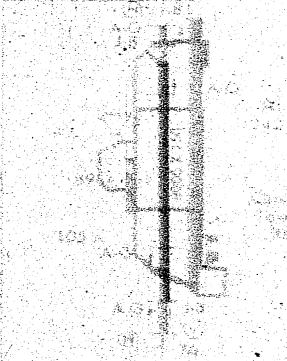
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 2000



Altitude	MOCA	MOCA Initial Approach
11,000	11,000	11,000
3,000	3,000	3,000
1,900	1,900	1,900
1,200	1,200	1,200

MIN SAFE ALT 23 NM 1200

MOCA 11,000



## TACAN/ILS-RWY 36-2

138

NAHA 35

# NAHA

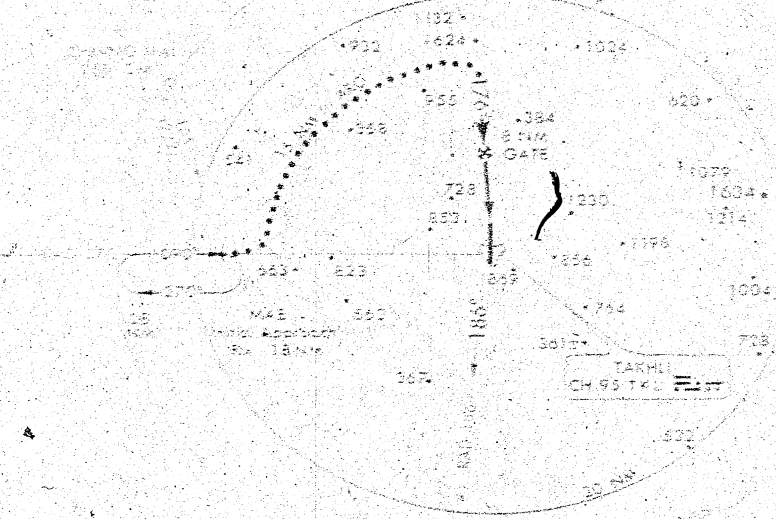
# TAKHLI

TACAN-2 RWY 18

194

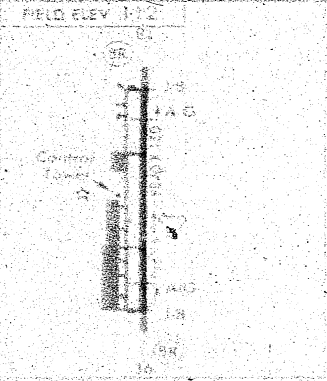
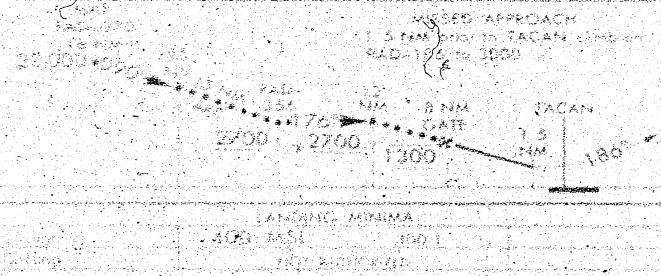
TAKHLI E/D

TAKHLI 255 CON  
 15704 2538 1134  
 15704 2538 1134  
 15704 2538 1134  
 15704 2538 1134  
 15704 2538 1134



FIELD ELEV ALT 1000M 8200

MIN SAFE ALT 25 NM 2700



TACAN-2 RWY 18

15116 H 100 181

TAKHLI E/D

# TAKHLI





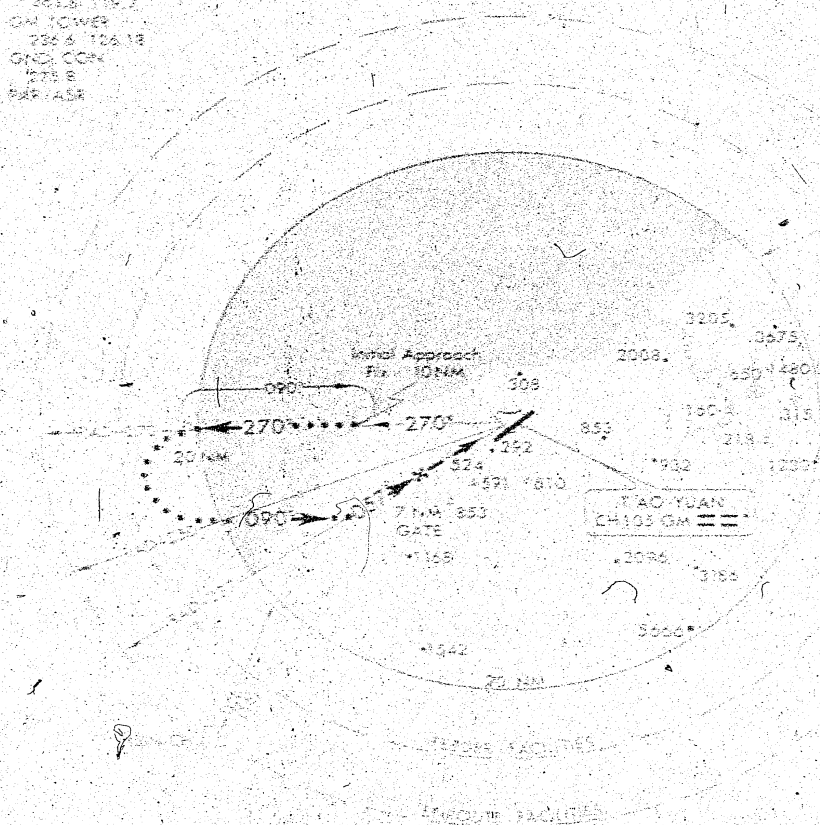
# TAOYUAN

TACAN-2

202

TAO-YUAN A/D

1. PEI APP CON  
341.5 119.2  
ON TOWER  
236.6 126.18  
GND CON  
127.8  
PAR 158



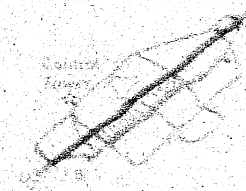
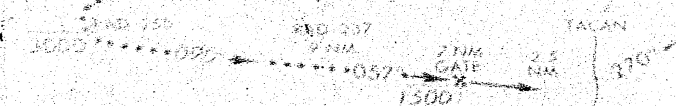
EMERG SAFE ALT 100 NM 35100

MIN SAFE ALT 25 NM 3000

TAO-270  
10 NM  
20,000

MISSED APPROACH  
2.5 NM prior to TACAN left  
turn (Elev on RAD-270) 3000

FIELD ELEV 147



500 MSL  
500 MSL  
500 MSL

TACAN/2

200 NM 121147

TAO-YUAN A/D

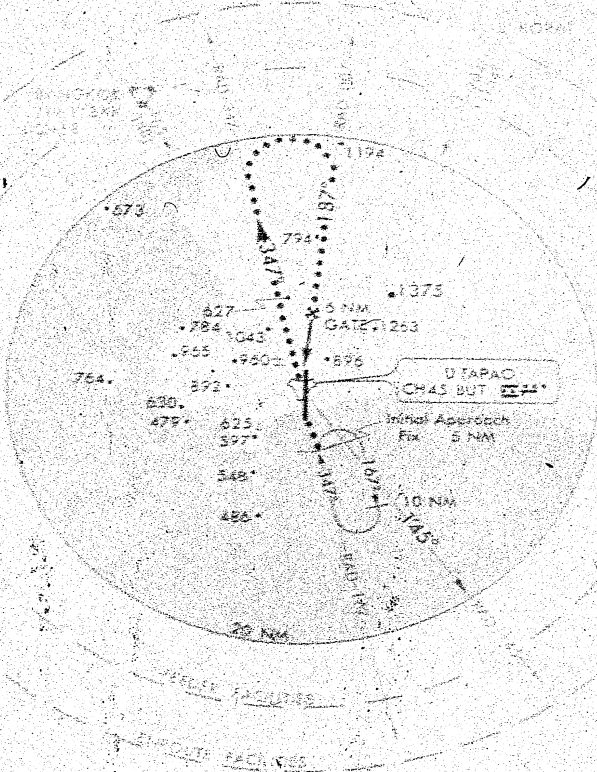
# TAOYUAN

# TACAN 2 RWY 18

UTAPAO APP CON  
325.0 134.1  
UTAPAO TOWER  
300.8 116.1  
END CON  
173.8  
342.55

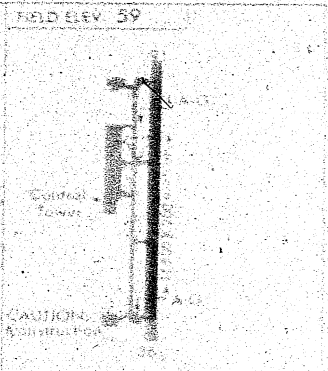
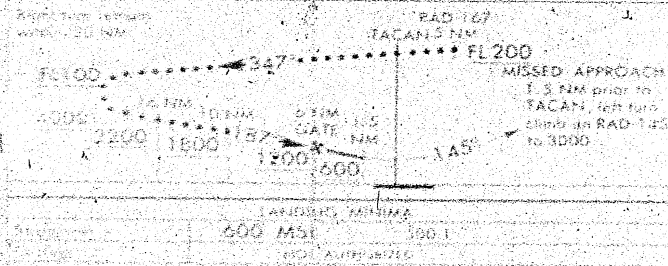
124067Z MAR 67

UTAPAO A.O.



EMERG SAFE ALT 100 NM 7500

MIN SAFE ALT 25 NM 5400



TACAN 2 RWY 18

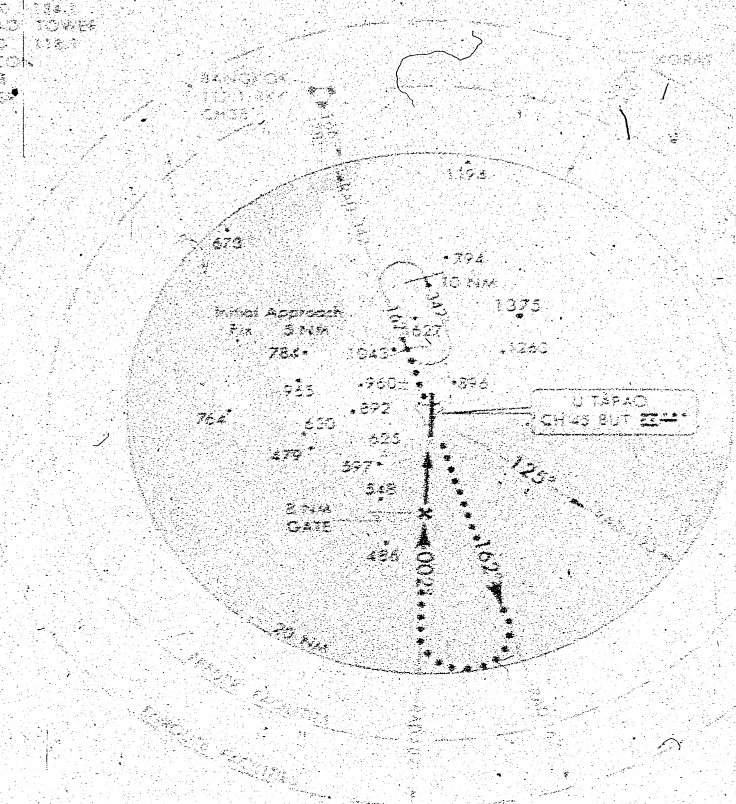
124100Z MAR 67

UTAPAO A.O.

U TAPAO

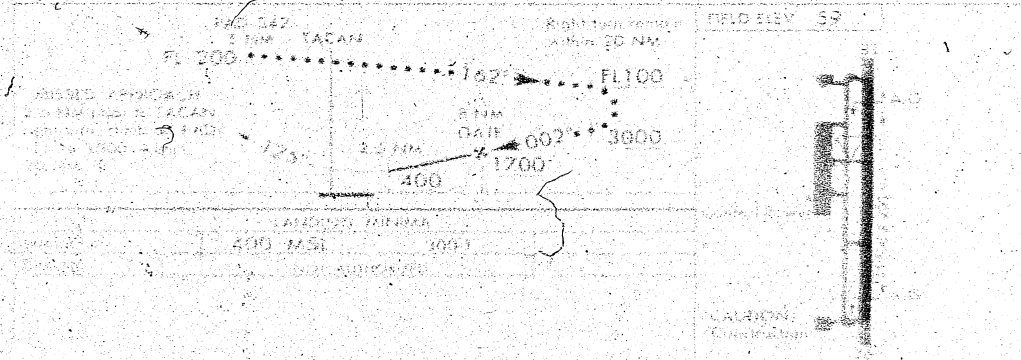
# TACAN-2 RWY 36

TAPAO  
AF CON  
7550  
TAPAO TOWER  
1125  
ONO CON  
0758  
448-655



MINIMUM SAFE ALT 100 NM 7600

MIN SAFE ALT 25 NM 3400



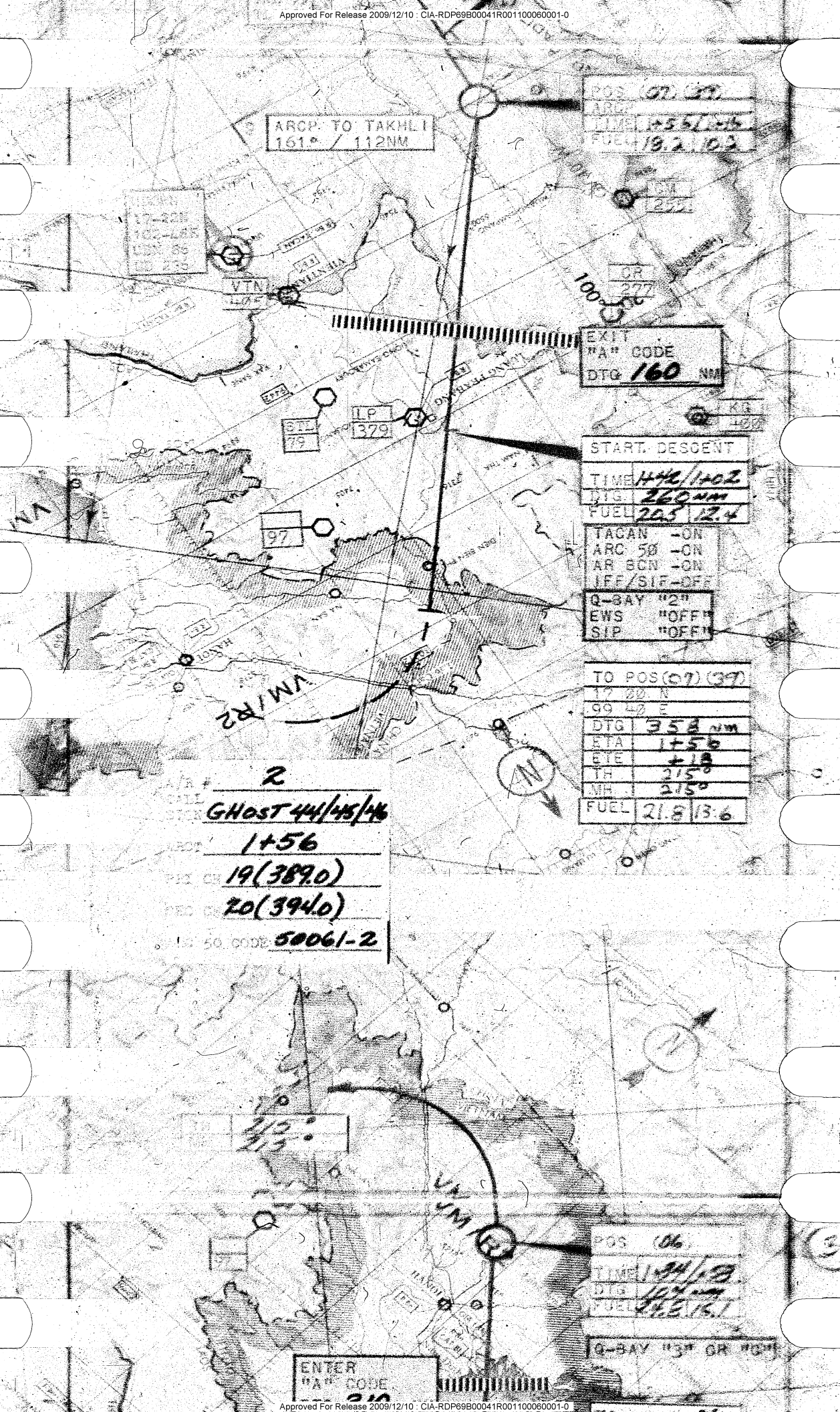
# TACAN-2 RWY 36

U TAPAO









ARCP TO TAKHLI  
161° / 112NM

POS (01) (37)  
TIME 1455/15  
FUEL 19.2/10.3

17-22N  
102-48E  
CDN 86  
UD 238

OR  
277

OR  
277

EXIT  
"A" CODE  
DTG 160 NM

START DESCENT

TIME 1442/1402  
DTG 260 NM  
FUEL 20.5/12.4

TACAN -ON  
ARC 50 -ON  
AR SCN -ON  
IFF/SIF-OFF

Q-BAY "2"  
EWS "OFF"  
SIP "OFF"

TO POS (01) (37)  
17 22 N  
102 48 E  
DTG 358 NM  
ETA 1456  
ETE 1418  
TH 215°  
MH 215°  
FUEL 21.8/13.6

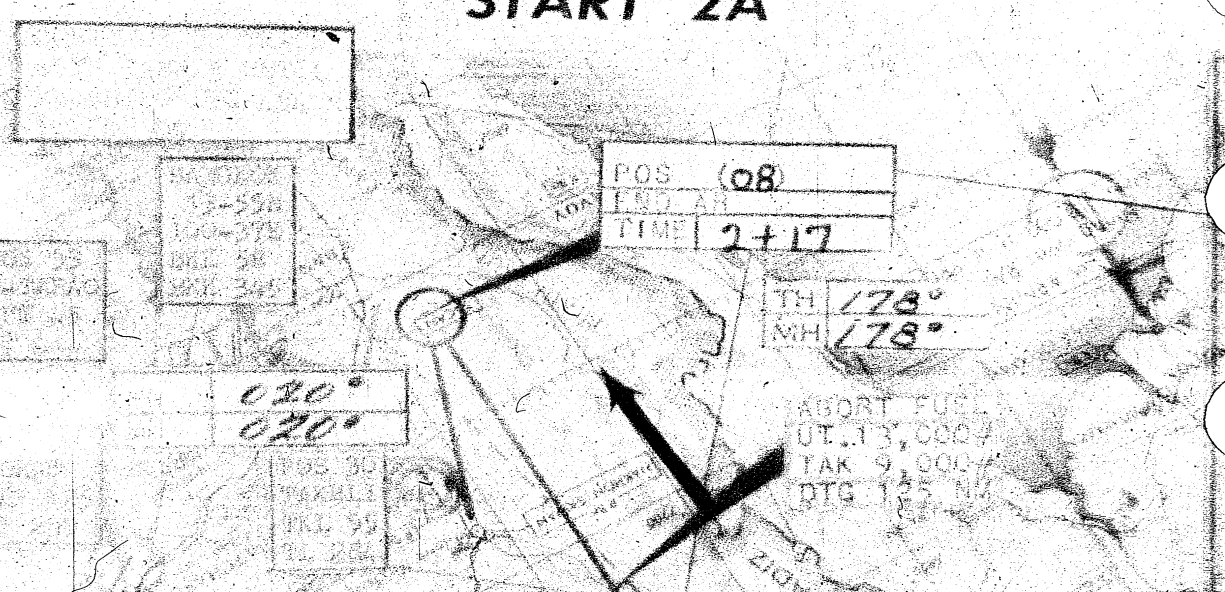
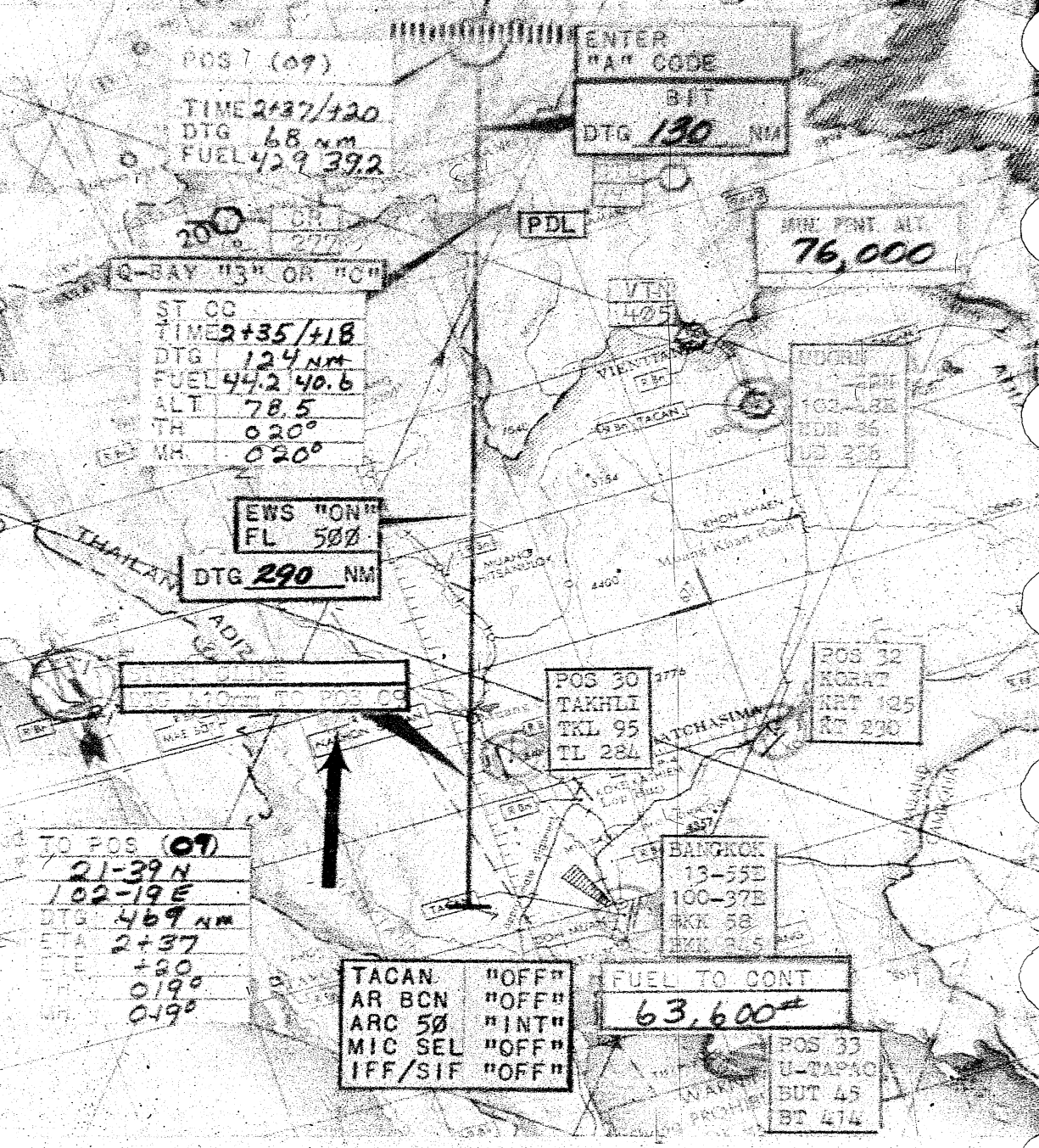
A/R # 2  
CALL GHOST 44/45/46  
ARCP 1456  
PHI CH 19(389.0)  
PHI CH 20(394.0)  
PHI CH 50 CODE 50061-2

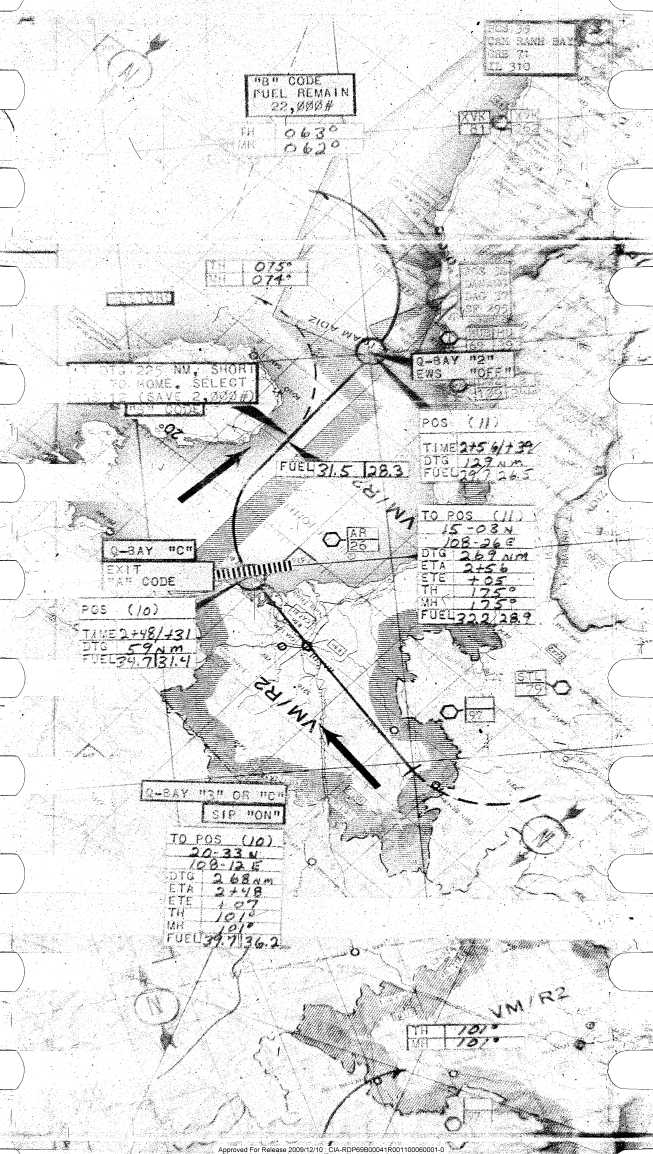
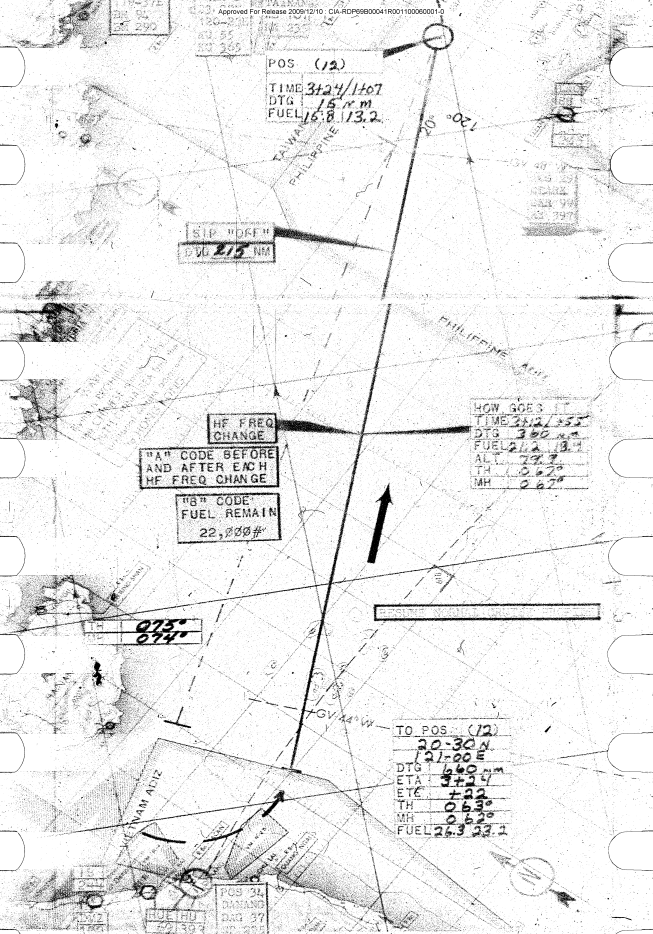
POS (06)  
TIME 1434/13  
DTG 164 NM  
FUEL 24.5/15.1

Q-BAY "3" OR "0"

ENTER  
"A" CODE  
210







# CLARK

## TACAN-2/ILS

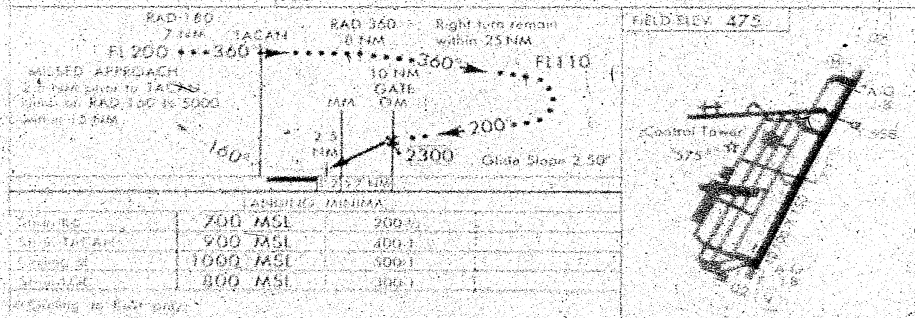
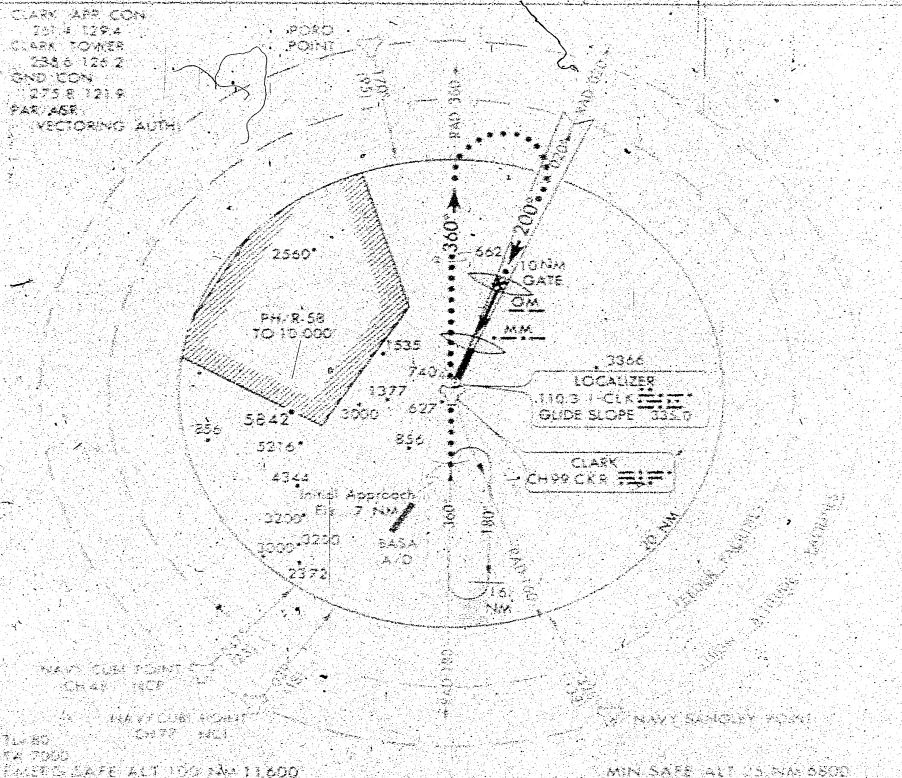
CLARK APP CON  
251.4 129.4  
CLARK TOWER  
238.6 126.2  
GND CON  
275.8 121.9  
PAR/ASR  
VECTERING AUTH

JAN 1980 (USAF)

1030N

125° 00' E OF THE PHILIPPINES

CLARK AB



## TACAN-2/ILS

15° 14' N 120° 33' E

1030N

125° 00' E OF THE PHILIPPINES

CLARK AB

# CLARK

# CLARK



CLARK AB

CLARK

# CLARK

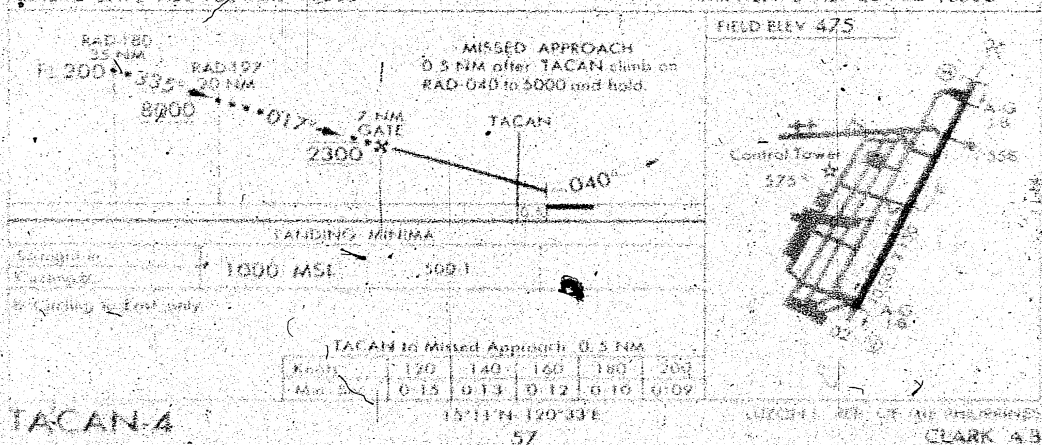
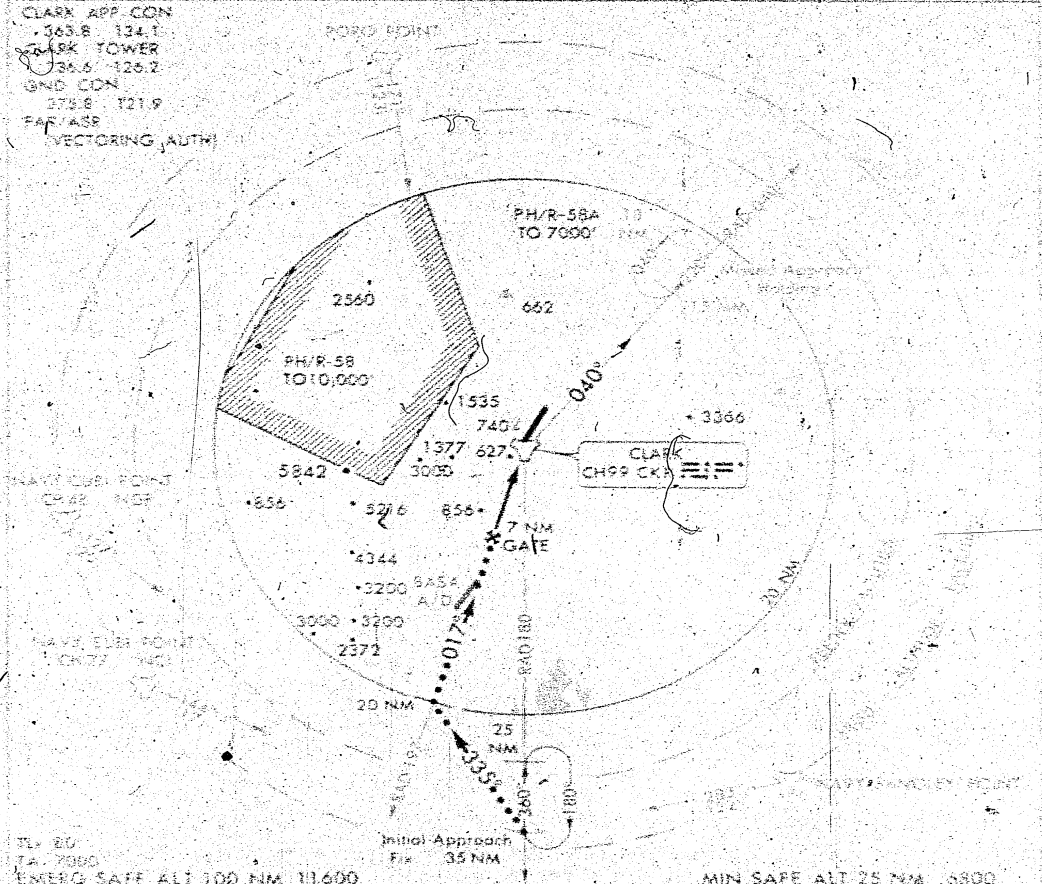
## TACAN-4

CLARK APP CON  
363.8 134.1  
CLARK TOWER  
355.5 126.2  
GND CON  
275.8 121.9  
PAR/ASR  
VECTERING AUTH

(AL 1880H/USAF)

CLARK AB

(LIGHTS, SIG. OF THE PHILIPPINES)



## TACAN-4

# CLARK

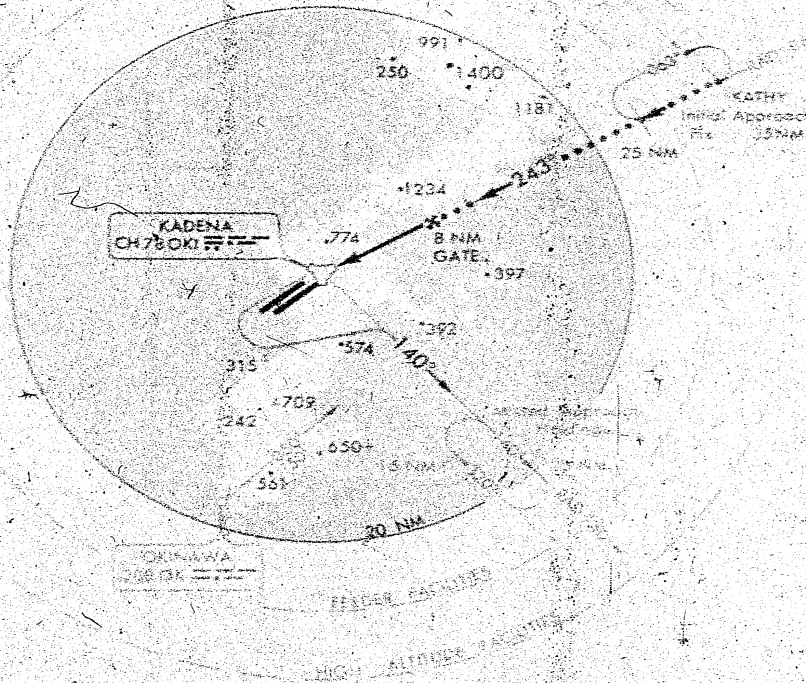
# KADENA

## TACAN-2 RWY 23

OKINAWA APP CON  
255.4 135.9  
KADENA TOWER  
315.8 236.6 126.2  
GND CON  
235.8  
PAR. ASS

JAL 1457 USAF

KADENA AB  
KADENA OKINAWA J. 27th AF. 12th AF. 13th AF.



TA 1457

MINI SAFE ALT 100 NM 2700

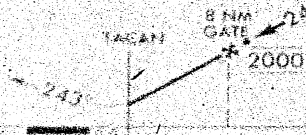
MINI SAFE ALT 25 NM 2400

STANDARD APPROACH  
At TACAN starts on  
243 is 1200 at 50 NM  
other TACAN start 100 to  
other TACAN 140 and  
50 NM

KATHY  
RAD-065  
35 NM  
FI 200

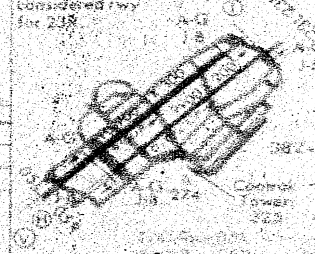
WHEEL ELEV 142

Rwy 23R 12:100 dual  
1200 sym Rwy 05L  
considered rwy  
for 23R



Altitude	600 MSL	500.1
Altitude	800 MSL	700.1

oncoming air force only



CAUTION  
Construction on Rwy 9

## TACAN 2 RWY 23

26-2111-12/144  
99

KADENA AB  
KADENA OKINAWA J. 27th AF. 12th AF. 13th AF.

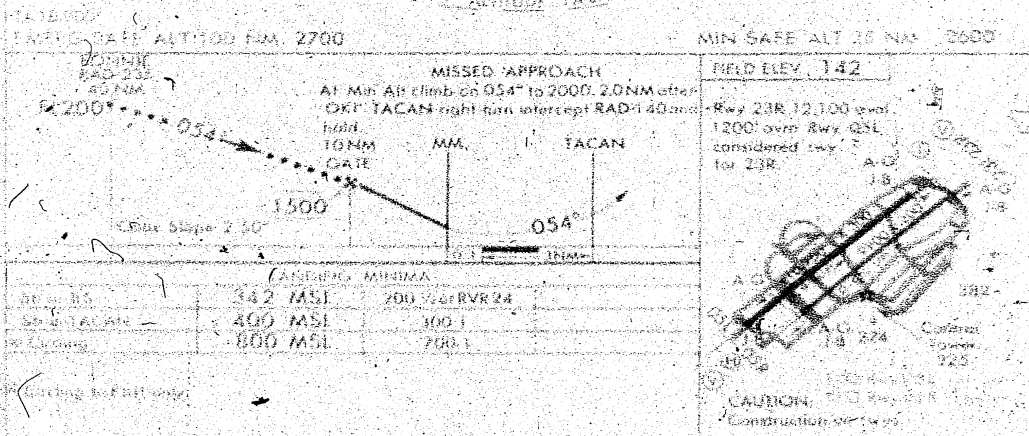
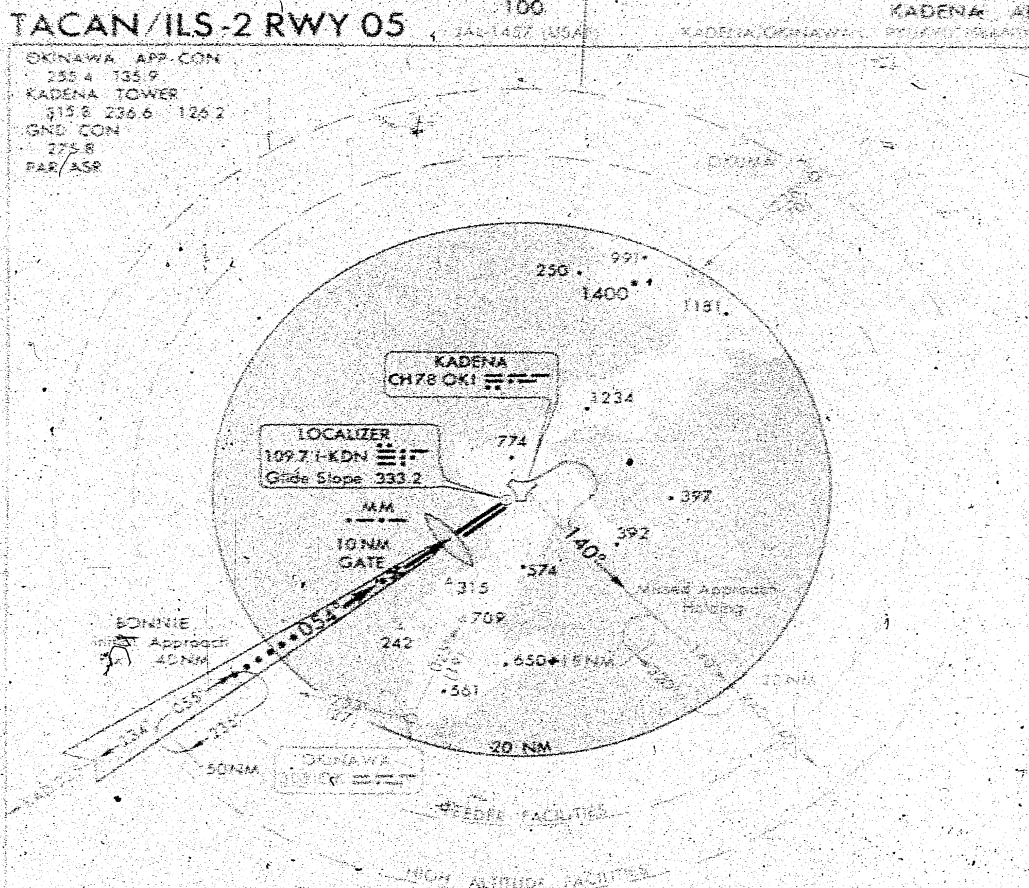
# KADENA



# KADENA

## TACAN/ILS-2 RWY 05

OKINAWA APP CON  
135.4 135.9  
KADENA TOWER  
115.8 236.6 126.2  
GND CON  
275.8  
PAR/ASR



## TACAN/ILS 2 RWY 05

# KADENA

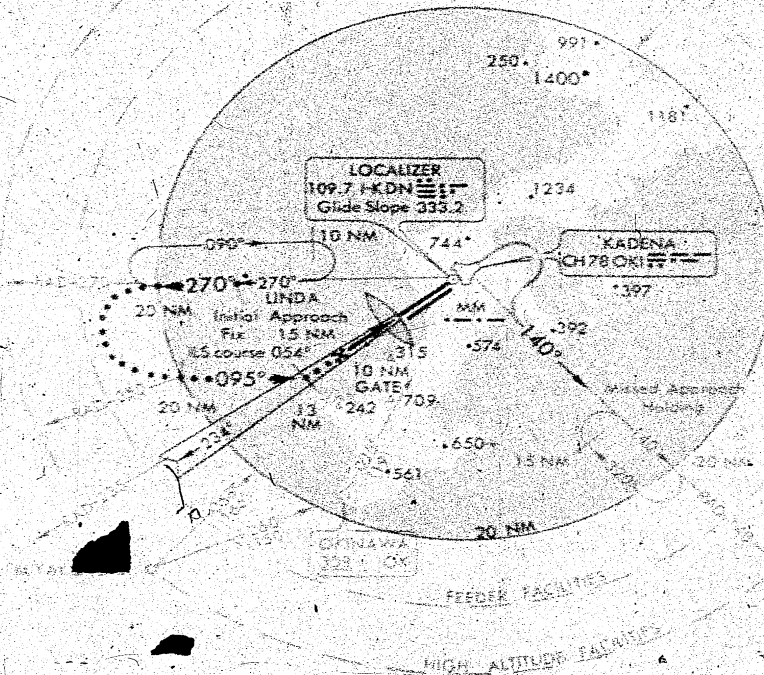
# KADENA

## TACAN/ILS-4 RWY 05

JAL 1457 USA

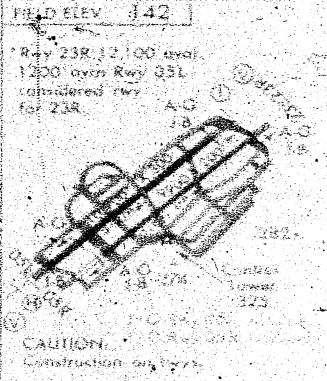
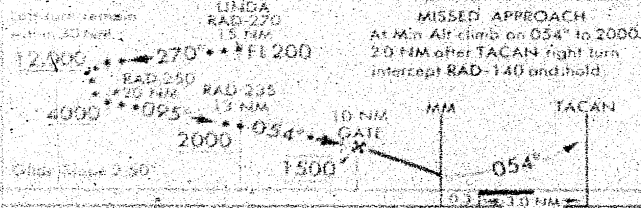
KADENA, OKINAWA I. TYUKUJI 2 21051

OKINAWA APP CON  
235.4 135.9  
KADENA TOWER  
313.8 235.6 126.2  
GND CON  
275.8  
PAR/ASR



TA 18500  
LIMITS BAIL ALT 100 NM 2700

MIN SAFE ALT 35 NM 2000



ALTITUDE	MSL	MSL
342	MSL	700 / over VVR 24
400	MSL	300.1
800	MSL	700.1

## TACAN/ILS-4 RWY 05

26°21'N 127°46'E

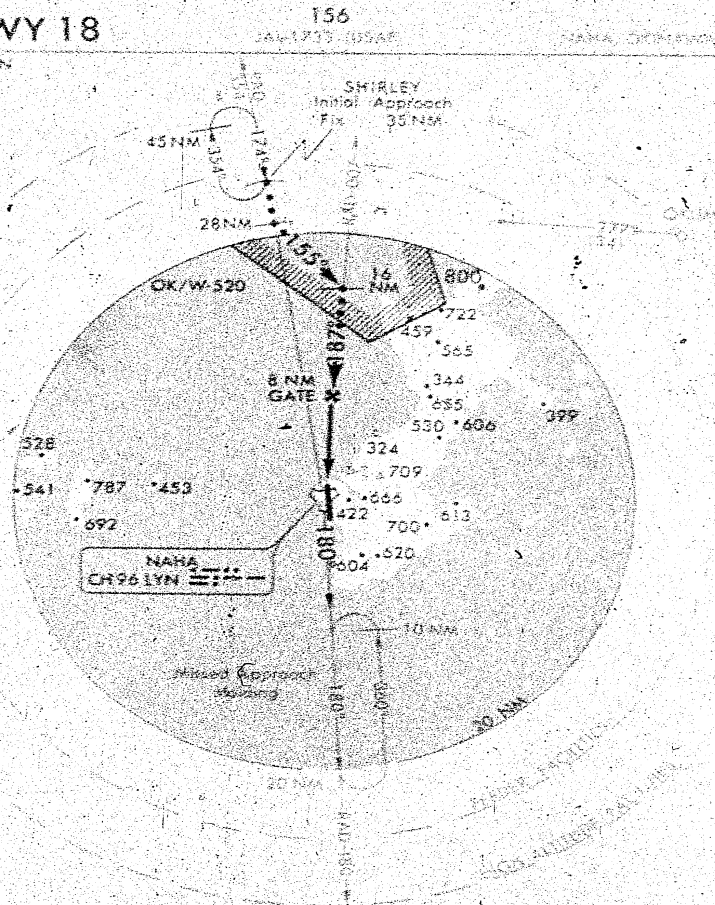
KADENA, OKINAWA I. TYUKUJI 2 21051

# KADENA

# NAHA

## TACAN-RWY 18

ORINAWA APP CON  
253.4 135.9  
NAHA TOWER  
308.6 235.6  
126.2 115.1  
GND CON  
284.6  
PAR ASP

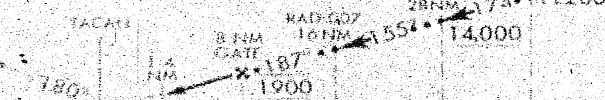


TA 18,000  
EMERG SAFE ALT 100 NM 2700

MIN SAFE ALT 25 NM 2200

APPROACH  
10 NM prior to TACAN climb  
to 1400-1800 to 2000 and hold

SHIRLEY  
RAD-354  
35 NM  
74 • FL200



### LANDING MINIMA

400 MSL	400.1
600 MSL	600.1

Heading to West only

### FIELD ELEV 14



## TACAN-RWY 18

26°11'N 127°19'E

NAHA AB

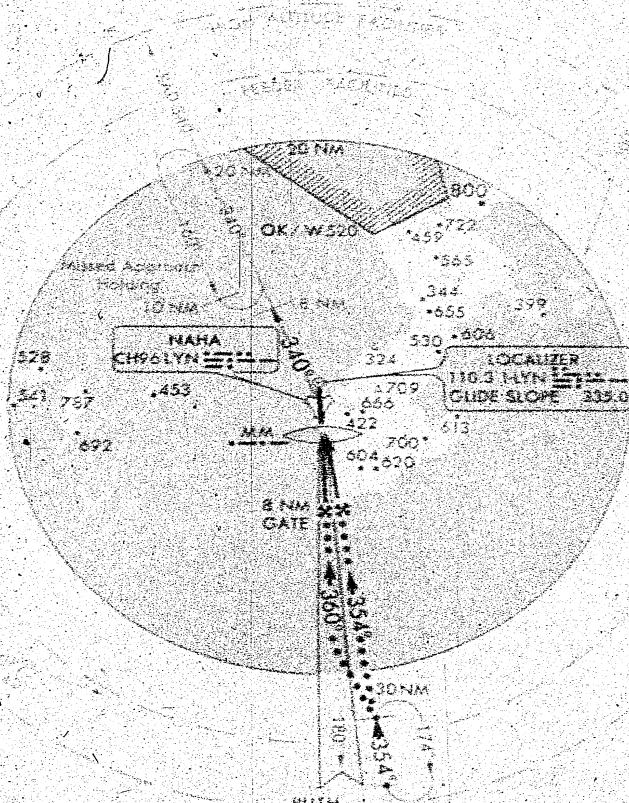
# NAHA



# NAHA

## TACAN/ILS RWY 36-1

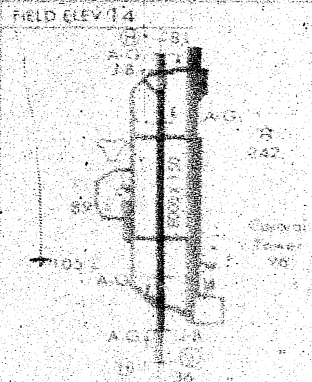
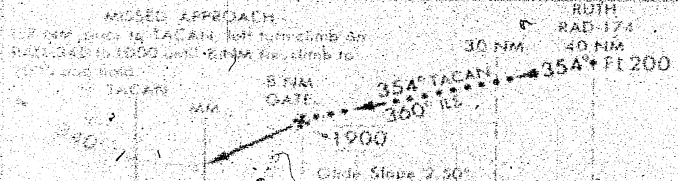
OKINAWA APP CON  
255.4 135.9  
NAHA TOWER  
208.6 236.6  
126.2 118.3  
GND CON  
284.6  
PAR/AGE



1418 000  
EMERG SAFE ALT 100 NM 2700

RUTH  
Initial Approach RAD 174  
Fix 40NM

MIN SAFE ALT 25 NM 2200



LANDING MINIMA		
3000	314 MSL	300.1
2000	508 MSL	500.1
1000	600 MSL	600.1
500	400 MSL	400.1

TACAN/ILS RWY 36-1 26°11'N 127°39'E

157

NAHA TOWER  
NAHA 48

NAHA



# NAHA

TACAN/ILS-RWY 36-2

158

344-1732 USAF

NAHA AB

NAHA OKINAWA

OKINAWA APP CON

254.4 135.9

NAHA TOWER

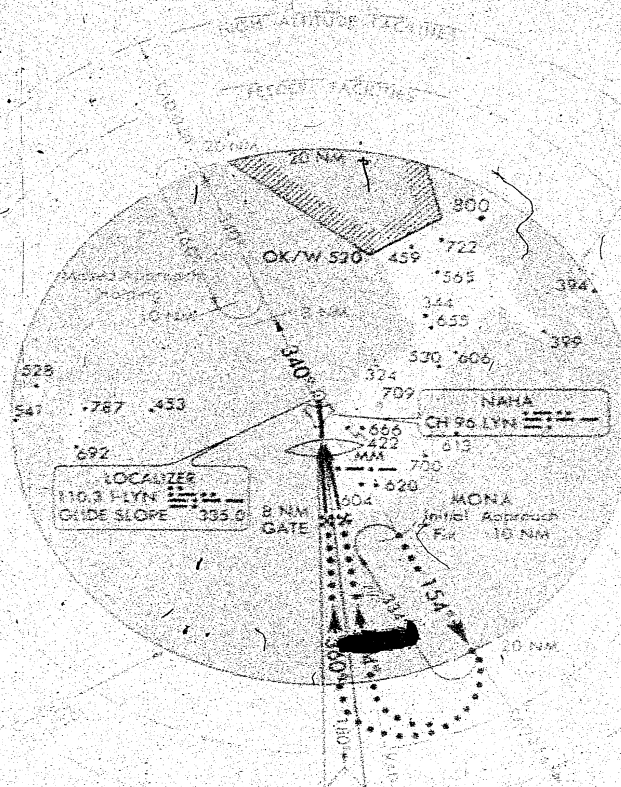
255.6 236.6

252.1 118.1

OKINAWA CON

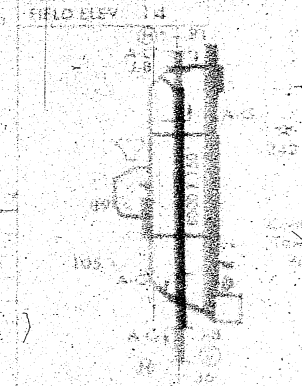
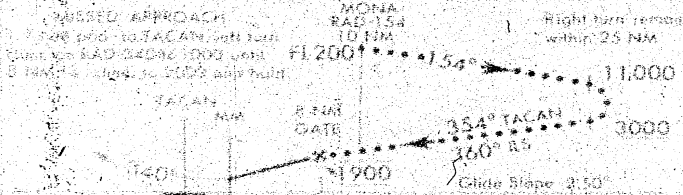
284.0

PARASSE



EMERGENCY GATE ALT 100 NM 2700

MIN SAFE ALT 25 NM 2700



Altitude	MSL	ASL
314	MSL	300.1
300	MSL	500.1
300	MSL	400.1
300	MSL	500.1

TACAN/ILS-RWY 36-2

20°11'N 127°39'E

NAHA OKINAWA

NAHA AB

NAHA

194

24-11-20



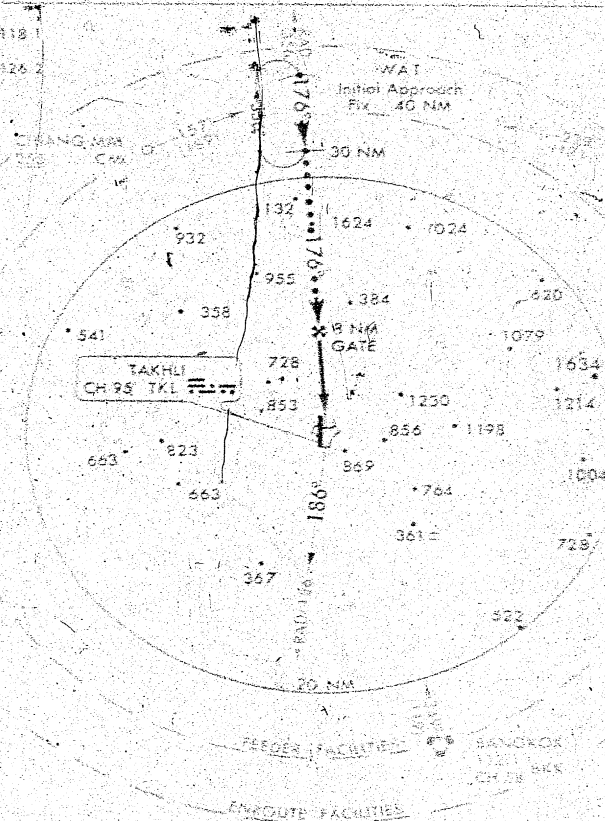
14-00000

TAKHLI

# TAKHLI

## TACAN-4 RWY18

TAKHLI APP CON  
270.6 363.8 118.1  
TAKHLI TOWER  
253.5 236.0 126.2  
GND CON  
127.5  
PAR 454



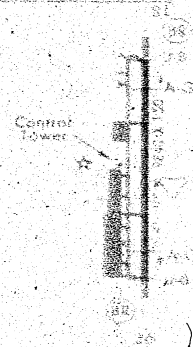
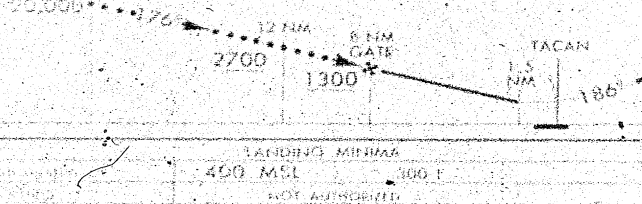
EMERG SAFE ALT 100 NM 8200

MIN SAFE ALT 35 NM 2700

WAT  
RAD 352  
40 NM  
20,000

MISSED APPROACH  
1.5 NM prior to TACAN climb  
on RAD-18 to 3000

FIELD ELEV 112



TACAN-4 RWY18

15 16 17 18 19  
195

TAKHLI A-D

# TAKHLI







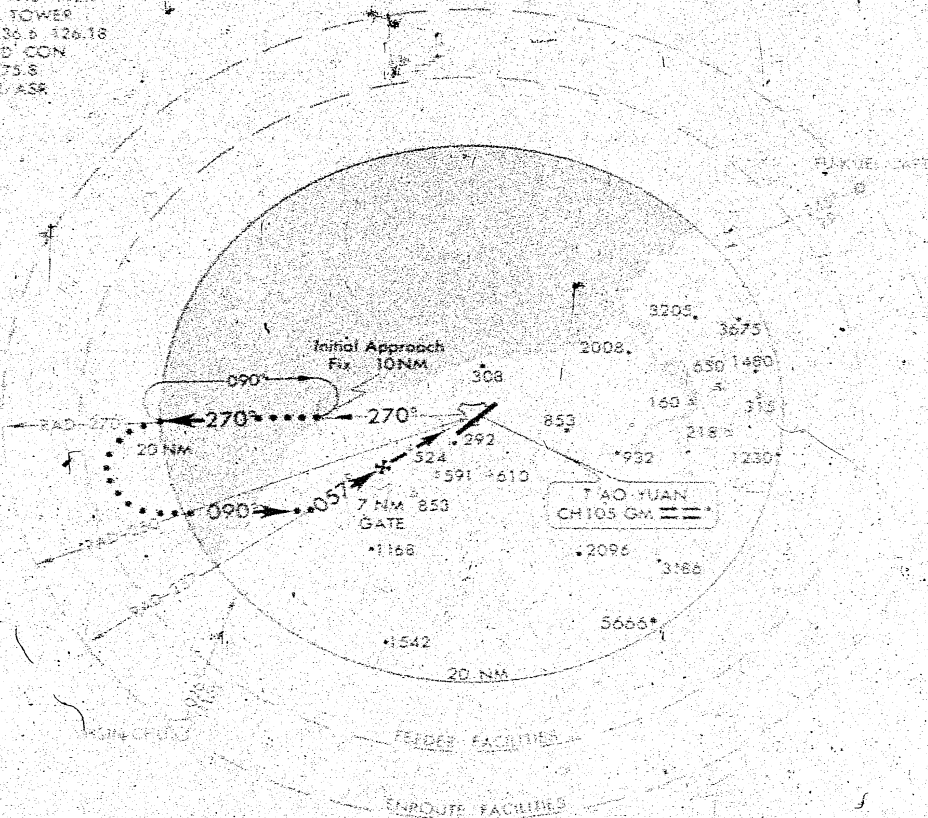
# TAOYUAN

TACAN-2

202

T'AO-YUAN A/D

TAIPEI APP CON  
343.8 118.7  
GM TOWER  
230.5 126.18  
GND CON  
275.8  
PAR ASS



TA 16 000  
EMERGENCY SAFE ALT 100 NM 15,100

MIN SAFE ALT 25 NM 8000

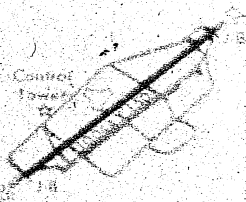
Left turn radius  
10 NM  
12,000  
RAD-270  
10 NM  
20,000  
RAD-270  
3000  
RAD-270  
7 NM  
1500

MISSED APPROACH  
2.5 NM prior to TACAN left  
turn point on RAD-270 to  
3000

FIELD ELEV 147

LANDING MINIMA		
500 MSL	400.1	
600 MSL	400.1	

approach to Northwest only



TACAN-2

25°03'N 121°14'E

T'AO-YUAN A/D

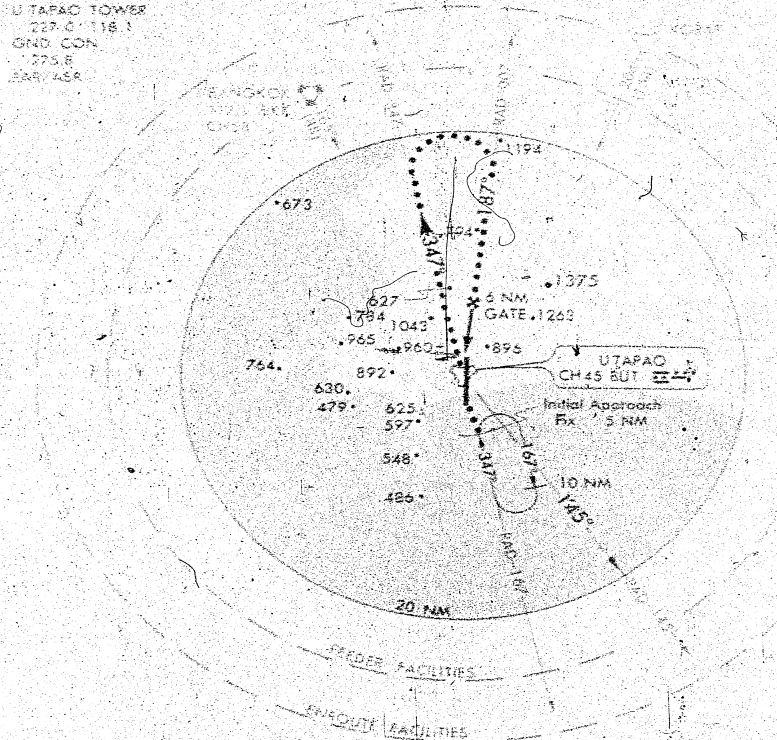
# TAOYUAN

# TACAN-2 RWY 18

UTAPAO APP CON  
393.0 134.1  
UTAPAO TOWER  
227.0 118.1  
GND CON  
275.8  
388/458

JAL 4370 10547

UTAPAO CHABOWAT RWY 18

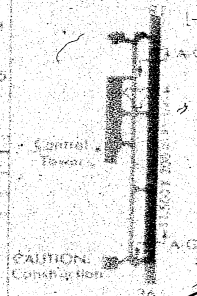
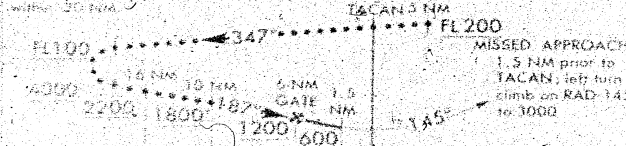


EMERG SAFE ALT 100 NM 7600

MIN SAFE ALT 25 NM 3400

Right turn - 30 NM

FIELD ELEV 59



LANDING MINIMA	
Standard	600 MSL 500-1
Enroute	NOTE AUTHORIZED

# TACAN-2 RWY 18

12 41 N-101 01 E  
213

UTAPAO CHABOWAT

UTAPAO A/D

U TAPAO



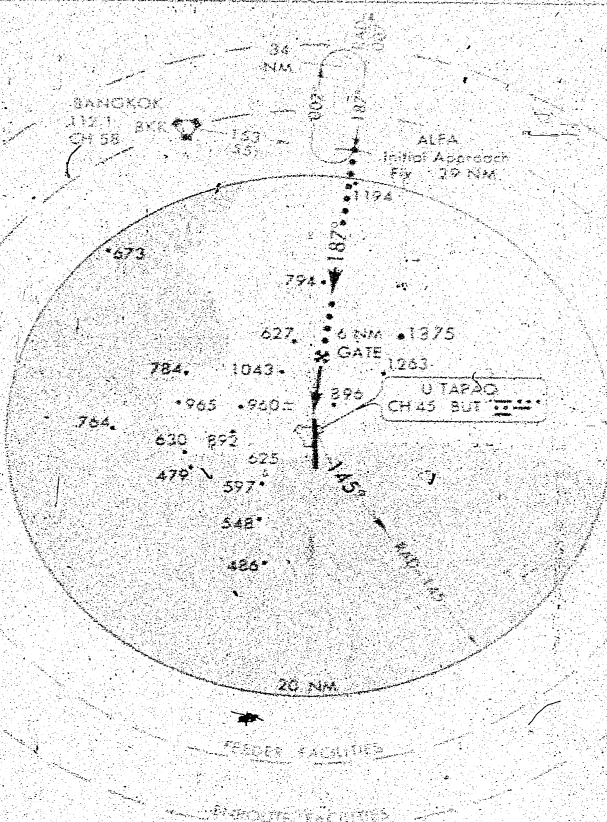


# TACAN-4 RWY18

U TAPAO ARP CON  
395.0 134.1  
U TAPAO TOWER  
227.0 118.1  
GND CON  
275.2  
PAR ASS

14-1472 USAP

U TAPAO A/D  
TAPAO, CHANGWAT RAYONG, THAILAND



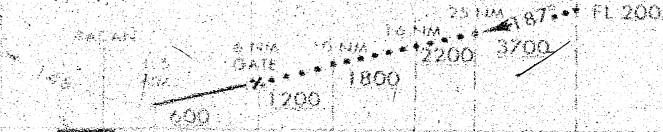
CRUISE SAFE ALT 100 NM 7600

MIN SAFE ALT 25 NM 3400

MISSILE APPROACH  
10 NM prior to TACAN 1600 ft  
2000 ft RAD 145 to 3000

ALFA  
RAD 007  
29 NM  
FL 200

FIELD ELEV 59



CAUTION: MINIMA  
600 MSL 6001  
NOT AUTHORIZED

CAUTION  
Construction

TACAN-4 RWY18

12-1114 1010101  
215

U TAPAO, CHANGWAT RAYONG, THAILAND  
U TAPAO A/D

U TAPAO



**THE END**

**ROUTE**

6734

PS 52  
30 OCT 67

**STRIP**

→ E N D → 67 3 4 → 30 00 + 67 → 30 FS  
→ 67 3 4 → 30 00 + 67 → 30 FS  
→ 67 3 4 → 30 00 + 67 → 30 FS